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AMENDMENT TO THE CLAIMS:

The following claim set replaces all prior versions, and listings, of claims in the application:

- (currently amended) <u>An artificial turf system which comprises</u> Use of a vulcanised thermoplastic elastomer or styrene-ethylene-butadiene- styrene polymer (SEBS) as infill material in artificial turf systems.
- (currently amended) <u>The artificial turf system</u> Use of a vulcanised thermoplastic elastemer or SEBS-according to claim 1 in the form of as infill material in artificial grass.
- (currently amended) The artificial turf system Use of a vulcanized thermoplastic elastomer-according to claim 1, wherein the vulcanised thermoplastic elastomer comprises a polyolefin and a rubber, and wherein the rubber is dynamically vulcanised by the use of a curing agent.
- (currently amended) The artificial turf system Use of a vulcanized thermoplastic elastemer-according to claim 3, wherein the rubber is dynamically vulcanised by a curing agent chosen from sulfur, sulfurous compounds, metal oxides, maleimides, phenol resins, silanes or peroxides.
- (currently amended) <u>The artificial turf system</u> Use of a vulcanized thermoplastic elastomer-according to claim 5, <u>wherein</u> eharacterised in that the rubber is dynamically vulcanised by a peroxide.

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- (currently amended) The artificial turf system Use of a vulcanized thermoplastic elastomer according to claim 3, wherein the rubber is vulcanised to a gel content higher than 70%.
- (currently amended) <u>An athletic field surface which comprises the artificial turf system</u> <u>Use of a vulcanized thermoplastic elastomer or SEBS</u> according to <u>elaims 1 for claim 1, wherein the athletic field surface is chosen from</u> soccer fields, hockey fields or tennis [[fields]] <u>courts</u>.